

# HF Happenings 772



Volume 15, Issue 35, the week of 13 November 2017



ZS40VDK operating from the Dam wall on 17 November 2017

## DXCC News

4W/OZ1AA. It has been reported that Thomas, OZ1AA, states his 4W/OZ1AA log from East Timor has been uploaded to LoTW and "the operation has been approved for DXCC."

FT5XT. QSL Manager Stephane, F4DXW, reports "good news" as "all the proofs were sent to the ARRL by email and by mail (paper copy) to accredit the FT5XT activities and FT5WQ." Sharon Taratula, Awards Manager, has told Stephane that both operations are now approved for DXCC credit. The FT5XT operation was from Kerguelen Island on 11 October. Gil has not yet been active this year as FT5WQ from Crozet. Also, LoTW certificate has been requested for both calls and Stephane says once received he'll upload the FT5XT logs.

## What is new in N1MM Logger+

I asked Larry, K8UT, to mention what is new in N1MM Logger+: "The biggest news, which may be old news to some, is N1MM+'s embedded Spectrum Display. Whereas the basic premise for packet spots is to tell you what happened a while ago at somewhere else, panadapters tell you what is happening now on your antenna. All spectrum analysers can show you every signal within the scanned frequencies, but N1MM+'s Spectrum Display is optimized for contest operation and allows the operator to ignore signals based on signal strength and desirability (like dupes and mults). Some contest tools - like packet spots and skimmers - automatically classify the station as operating Assisted, but you can use Spectrum Display and still qualify as a non-Assisted contester. You can find more information in the N1MM Logger+ Documentation for the Spectrum Display <http://n1mm.hamdocs.com/tiki-index.php?page=Spectrum+Display+Window&structure=N1MM+Logger+Documentation>.

You can now download your copy of HF Happenings from [www.sarl.org.za/hf\\_happenings.asp](http://www.sarl.org.za/hf_happenings.asp)

## November

- 4 – RaDAR Challenge and SDR Workshop in Cape Town
- 5 – PEARS HF Contest
- 11 – Armistice Day
- 12 – Remembrance Sunday
- 18 – ZS40VDK Bash = AGM and Year-End function of the Bo Karoo ARC, Vanderkloof
- 18 - Antique Wireless Association Museum Open Day, Flea market and AGM
- 17 to 19 Cherry Festival, Ficksburg
- 23 - Closing date for December Radio ZS
- 25 - SARL Newbie Sprint; West Rand Flea Market; CTARC End of the Year function
- 25 and 26 - CQ WW DX CW Contest

## December

- 1 – start of the YOTA Month; birth of the prophet
- 3 - SARL Digital Contest; Day for Disabled Persons
- 6 – all schools close
- 9 and 10 – ARRL 10 metre contest
- 13 to 20 – Chanukah
- 16 – Day of Reconciliation
- 21 – Summer Solstice
- 24 – Christmas Eve
- 25 – Christmas Day
- 26 – Family Day
- 27 - closing date for January 2018 Radio ZS
- 31 - End of 2017 CQ Marathon and YOTA month; destroy your copy of the 2017 SARL Blue Book.

## Pigeons and Amateur Radio have something in common!

They are both considered "weird" networks of last resort by an Infoworld article [www.network-world.com/article/3229566/internet/weird-ip-networks-internet-via-birds-and-ham-radios.html](http://www.network-world.com/article/3229566/internet/weird-ip-networks-internet-via-birds-and-ham-radios.html).

## Sometimes a contest rule is just a contest rule

A couple of issues ago, the *Contest Update* contained information related by Bob, N6TV, that would enable Icom radios with USB sound interfaces to supply the 'monitor' audio of what the operator hears during transmit. This capability is driven by the CQ WW DX contest's rules requiring that an audio recording of what the operator hears be made available on request of the judges. This is usually only required of the top competitive entries in each category. There are some SO2R operators that do not believe that it is necessary to record the transmitted audio, since when they operator SO2R, they are not actually listening to the audio anyway!

I emailed Doug, KR2Q, asking whether SO2R operators need to record transmitted audio. Here's what he said, "Well, lots of folks try to see a "spirit" aspect and often can lead to rules clarifications which more clearly define things. But so far, we are sticking with what the rules says.

The question you raise is really a question for SO2R guys where they are transmitting "without listening" so that they can listen on different frequency.

As the rule is written now, if the operator(s) is(are) not listening to their own audio or side tone, then we do not need to hear it either. But if the op is, in fact, listening to what they are sending, then we want to hear that too.

Just take the rule literally, I guess. Hope this helps. Maybe we'll post a blog about it. Good luck in the contest!"

Doug, KR2Q, on behalf of the CQ WW Contest Committee

## Word to the Wise

Link Margin: The difference between a receiver's minimum discernible signal and the expected level of a signal delivered to the receiver. The value is usually expressed in dB. Link Margin calculations are used in analysing receive and transmit signal paths for EME communications and typically contain allowances for attenuation by atmospheric absorption or other effects.

## Sounds you do not want to hear

Here are some sounds you do not want to hear: RFI. The ARRL "sound library" contains known RFI sources and some that have not yet been identified <http://www.arrl.org/sounds-of-rfi>. If you have a potential RFI problem, compare your noise to these to help eliminate it.

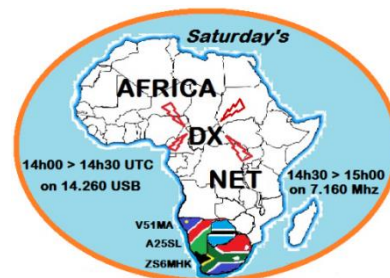
## Operating Tip

Just the Exchange, Please! It pays to mention it every contest season - during a contest or at any other time when contact rate is important, only provide the exchange - nothing more. If a running station has responded to your call, they only need your report. Do not repeat their call. If they did not get your call right, provide your call again then the report. If your call was correct, just provide the exchange.

## African DX

Tunisia, 3V. Ashraf "Ash", 3V4-002 (KF5EYY), will be active as 3V8SS from the "Radio Club Station of Tunisian Scouts" in Sousse, during the CQ WW DX CW Contest (25 and 26 November) as a Single-Op/All-Band/Low-Power entry. QSL via LoTW or to LX1NO. Read about Ashraf on the following Web page at [www.kf5eyy.info](http://www.kf5eyy.info)

Libya, 5A. Abubaker, 5A1AL, has found the new FT8 mode to operate on the 30-metre band. QSL via his home callsign. QRZ.com states, "Last log update into ClubLog was on 8 November at 23:30 UTC.



Nigeria, 5N. Bodo, DF8DX (ex-DL3OCH), will once again be active as 5N7Q from the Voice of Nigeria in Abuja between 12 to 16 November. Activity will be limited to his spare time (there working) on 80 to 10 metres using mostly CW. QSL via DF8DX, LoTW or ClubLog's OQRS.

Ghana, 9G. Peter, S54W, Drago, S59A, Uros, S57SU, Renato, S57UN, Borut, S57GM, Rado, S59ZZ, and Alex, OZ7AM are going on a DXpedition to Ghana between 20 and 29 November. They will be active from Kokrobite as 9G5W with several rigs on HF (SSB, CW, RTTY) and during the CQ WW contest. QSL via ClubLog OQRS, S59ZZ (d/B), LoTW. <https://ghana.si/>

Sudan, ST. DXNews.com reports that Sergey, R4PBW, is currently active as ST/R4PBW from Khartoum, Sudan. Length of stay is unknown. He is using a Yaesu FT-847 transceiver and GP Antenna. QSL via eQSL.

Senegal, 6W. Willy, ON4AVT, will be active as 6W/ON4AVT from Mbour sometime in February 2018. Activity will be on 20 metres using CW, SSB, PSK31 and PSK63. Equipment is a Yaesu FT891 transceiver into a Buddipole antenna. QSL via his home callsign.

## African Islands

IOTA frequencies

CW: 28 040 24 920 21 040 18 098 14 040 10 114 7 030 3 530 kHz

SSB: 28 560 28 460 24 950 21 260 18 128 14 260 7 055 3 760 kHz

Canary Islands, ED8. An international contest team will be active as ED8X from La Palma Island (IOTA AF-004) during the CQ WW DX CW Contest (25 and 26 November) as a Multi-Single entry. Operators mentioned are Kresimir, 9A5K, Emir, E77DX, Krassimir, K1LZ, Velimir, K3JO, Alexey, RA1A, Alexey, RN1AM, Vladimir, RW1A, Andrey, RW7K, Adi, S55M, Alexandru, YO8TTT, Ionut, YO9WF, and Tiberiu, YO9GZU. QSL via LoTW or RN3RQ.

Chagos Island, VQ9. Kazeno, JO1GWT/KJ6ZHM, is once again active as VQ9KA near Diego Garcia. The length of his stay is unknown. If like last time, he will be on 40 to 10 metres using CW and SSB. He states that if it rains there will be no operation. Kazeno uses a Yaesu FT-857D into a Buddipole. QSL via JO1GWT, direct or by the Bureau.

Guinea Bissau DXpedition, J5T (reminder). The Italian DXpedition Team will be active as J5T from Bubaque Island (AF-020) this week between 13 and 26 November. They expect to have 4 stations on all HF bands (no 50 MHz), using CW and SSB, and RTTY one band only, to be chosen. It was also mentioned that there will not be any FT8 operations. You can participate in the J5T survey on their official Web site at [www.i2ysb.com/idx](http://www.i2ysb.com/idx). Subject to the availability of internet connection, the REAL TIME Log will be available at <http://win.i2ysb.com/logonline>. The official forum is at [www.hamradioweb.net](http://www.hamradioweb.net). QSL via I2YSB direct, OQRS or LoTW.

## Contest Calendar

This week's contests as compiled by Bruce Horn, WA7BNM. The period covered is 6 to 13 November 2017

4 States QRP Group Second Sunday Sprint  
01:00 - 03:00 UTC 13 November  
Geographic Focus: North America  
Participation: Worldwide  
Mode: CW, SSB  
Bands: 160, 80, 40, 20, 15, 10 m  
Classes: Single Op  
Exchange: Member: RS(T), state, province or country and member no; Non-member: RS(T), state, province or country and power  
Work stations: Once per band  
QSO Points: 1 point per QSO with non-member; 2 points per QSO with member  
Multipliers: (none)  
Score Calculation: Total score = total QSO points

Submit logs by: 30 November 2017  
E-mail logs to: (none)  
Post log summary at: <http://qrpccontest.com/4sqrp>  
Mail logs to: (none)  
Find rules at: [www.4sqrp.com/SSS/sss\\_rules.pdf](http://www.4sqrp.com/SSS/sss_rules.pdf)

RSGB 80 m Autumn Series, Data  
20:00 - 21:30 UTC 13 November  
Geographic Focus: United Kingdom  
Participation: Worldwide  
Mode: RTTY, PSK  
Bands: 80 m Only  
Classes: 100 W; 10 W  
Exchange: other station's call, your call, serial no and your name

QSO Points: 1 point per QSO  
 Multipliers: (none)  
 Score Calculation: Total score = total QSO points  
 Submit logs by: 23:59 UTC 14 November 2017  
 Upload log at: [www.rsgbcc.org/cgi-bin/hfenter.pl](http://www.rsgbcc.org/cgi-bin/hfenter.pl)  
 Mail logs to: (none)  
 Find rules at:  
[www.rsgbcc.org/hf/rules/2017/rautumn.shtml](http://www.rsgbcc.org/hf/rules/2017/rautumn.shtml)

QRP Fox Hunt  
 02:00 - 03:30 UTC 15 November  
 Geographic Focus: United States  
 Participation: Worldwide  
 Mode: CW  
 Bands: 40 m Only  
 Classes: Single Op - fox or hound  
 Max power: 5 watts  
 Exchange: RST, state, province or country, name and power output  
 QSO Points: 1 point per QSO  
 Multipliers: (none)  
 Score Calculation: Total score = total QSO points  
 Submit logs by: 03:30 UTC 16 November 2017  
 E-mail logs to: (see rules)  
 Mail logs to: (none)  
 Find rules at:  
[www.grpfoxhunt.org/winter\\_rules.htm](http://www.grpfoxhunt.org/winter_rules.htm)

Phone Fray  
 02:30 - 03:00 UTC 15 November  
 Geographic Focus: North America  
 Participation: Worldwide  
 Mode: SSB  
 Bands: 160, 80, 40, 20, 15 m  
 Classes: Single Op  
 Max power: 100 watts  
 Exchange: NA: Name and state, province or country; non-NA: Name  
 Work stations: Once per band  
 QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station  
 Multipliers: Each US state (including KH6/KL7) once per band; Each VE province/territory once per band; Each North American country (except W/VE) once per band  
 Score Calculation: Total score = total QSO points x total mults  
 Submit logs by: 03:00 UTC 17 November 2017  
 E-mail logs to: (none)  
 Post log summary at: [www.3830scores.com](http://www.3830scores.com)  
 Mail logs to: (none)  
 Find rules at:  
[www.perluma.com/Phone\\_Fray\\_Contest\\_Rules.pdf](http://www.perluma.com/Phone_Fray_Contest_Rules.pdf)

CWops Mini-CWT Test  
 13:00 -14:00 UTC and 19:00 - 20:00 UTC 15 November and 03:00 - 04:00 UTC 16 November

Geographic Focus: Worldwide  
 Participation: Worldwide  
 Awards: Worldwide  
 Mode: CW  
 Bands: 160, 80, 40, 20, 15, 10 m  
 Classes: Single Op - QRP, low or high  
 Max power: HP: >100 watts; LP: 100 watts; QRP: 5 watts  
 Exchange: Member: Name and member no; non-Member: Name and state, province or country  
 Work stations: Once per band  
 QSO Points: 1 point per QSO  
 Multipliers: Each call once  
 Score Calculation: Total score = total QSO points x total mults  
 Submit logs by: 04:00 UTC 18 November 2017  
 Post log summary at: <http://www.3830scores.com>  
 Mail logs to: (none)  
 Find rules at: <http://www.cwops.org/cwt.html>

NAQCC CW Sprint  
 01:30 - 03:30 UTC 16 November  
 Geographic Focus: Worldwide  
 Participation: Worldwide  
 Mode: CW  
 Bands: 80, 40, 20 m  
 Classes: (none)  
 Max power: 5 watts  
 Exchange: RST, state, province or country and NAQCC no or power  
 Work stations: Once per band  
 QSO Points: 1 point per QSO with non-member; 2 points per QSO with member  
 Multipliers: Each state, province, or country once  
 Key Type Mult: 2 x if straight key, 1.5 x if bug, 1 x if other  
 Score Calculation: Total score = total QSO points x total mults x key type mult  
 Submit logs by: 23:59 UTC 20 November 2017  
 E-mail logs to: [naqcc33@windstream.net](mailto:naqcc33@windstream.net)  
[jcoreyc@gmail.com](mailto:jcoreyc@gmail.com)  
 Upload log at: [http://naqcc.info/sprint\\_submit\\_log.html](http://naqcc.info/sprint_submit_log.html)  
 Mail logs to: (none)  
 Find rules at:  
<http://naqcc.info/sprint/sprint201711.html>

NCCC RTTY Sprint  
 01:45 - 02:15 UTC 17 November  
 Geographic Focus: North America  
 Participation: Worldwide  
 Mode: RTTY  
 Bands: (see rules)  
 Classes: (none)  
 Exchange: Serial no, name and QTH  
 Score Calculation: Total score = total QSO points x total mults

Submit logs by: 19 November 2017  
E-mail logs to: (none)  
Post log summary at: <http://www.3830scores.com/>  
Mail logs to: (none)  
Find rules at:  
<http://www.ncccsprint.com/rttyns.html>

QRP Fox Hunt  
02:00 - 03:30 UTC 17 November  
Geographic Focus: United States  
Participation: Worldwide  
Mode: CW  
Bands: 80 m Only  
Classes: Single Op - fox or hound  
Max power: 5 watts  
Exchange: RST, state, province or country, name and power output  
QSO Points: 1 point per QSO  
Multipliers: (none)  
Score Calculation: Total score = total QSO points  
Submit logs by: 03:30 UTC 18 November 2017  
E-mail logs to: (see rules)  
Mail logs to: (none)  
Find rules at: [http://www.qrpfoxhunt.org/winter\\_rules.htm](http://www.qrpfoxhunt.org/winter_rules.htm)

NCCC Sprint  
02:30 - 03:00 UTC 17 November  
Geographic Focus: North America  
Participation: Worldwide  
Mode: CW  
Bands: (see rules)  
Classes: (none)  
Exchange: Serial no, name and QTH  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 19 November 2017  
E-mail logs to: (none)  
Post log summary at: <http://www.3830scores.com/>  
Mail logs to: (none)  
Find rules at:  
<http://www.ncccsprint.com/rules.html>

YO International PSK31 Contest  
1600Z-2200Z 17 November  
Geographic Focus: Worldwide  
Participation: Worldwide  
Mode: PSK31  
Bands: 80 m Only  
Classes: Single Op  
Max power: 50 watts  
Exchange: YO: RST, serial no and county; non-YO: RST, serial no and Country  
QSO Points: 2 points per QSO with YO station; 1 point per QSO with non-YO station  
Multipliers: Each YO county and each country

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 2 December 2017  
E-mail logs to: [pskyo@yo5crq.ro](mailto:pskyo@yo5crq.ro)  
Mail logs to: (none)  
Find rules at: <http://www.yo5crq.ro/Rules.htm>

LZ DX Contest  
12:00 UTC 18 November to 12:00 UTC 19 November  
Geographic Focus: Worldwide  
Participation: Worldwide  
Mode: CW, SSB  
Bands: 80, 40, 20, 15, 10 m  
Classes: Single Op All Band – mixed, CW or SSB - low or high; Single Op All Band Mixed QRP; Single Op Single Band Mixed; Multi-Single Mixed; SWL  
Max power: HP: >100 watts; LP: 100 watts; QRP: 10 watts; Non-QRP: >10 watts; QRP: 10 watts  
Exchange: LZ: RS(T) and 2-letter district; non-LZ: RS(T) and ITU Zone no  
Work stations: Once per band per mode  
QSO Points: 10 points per QSO with LZ station; 3 points per QSO with different continent; 1 point per QSO with same continent  
Multipliers: LZ: Each ITU zone and each DXCC country once per band; non-LZ: Each ITU zone and each district once per band  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 4 December 2017  
E-mail logs to: [lzdx@bfra.bg](mailto:lzdx@bfra.bg)  
Upload log at: <http://bfra.bg:8080/WebEditor/>  
Mail logs to: BFRA, PO Box 830, 1000 Sofia, Bulgaria  
Find rules at: <http://lzdx.bfra.org/rulesen.html>

All Austrian 160-Metre Contest  
16:00 UTC 18 November to 07:00 UTC 19 November  
Geographic Focus: Worldwide  
Participation: Worldwide  
Mode: CW  
Bands: 160 m Only  
Classes: Single Op; Multi-Single; SWL  
Exchange: OE: RST, serial no and District Code; non-OE: RST and serial no  
QSO Points: 1 point per QSO  
Multipliers: Each district code and each DXCC/WAE country  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 31 December 2017  
E-mail logs to: [hf-contest@oevsv.at](mailto:hf-contest@oevsv.at)  
Upload log at: <http://aoec-auswertung.oevsv.at/>  
Mail logs to: OEVSV-HQ, HF-Contest Manager, Industriezentrum NO-Süd, Strasse 14, Objekt 31, 2351 Wr Neudorf, Austria



Find rules at: [http://www.oevsv.at/export/shared/.content/galleries/Downloads\\_Referate/HF-Referat-Downloads/Regeln\\_Aoec\\_160\\_m\\_2017.pdf](http://www.oevsv.at/export/shared/.content/galleries/Downloads_Referate/HF-Referat-Downloads/Regeln_Aoec_160_m_2017.pdf)

#### REF 160-Metre Contest

17:00 UTC 18 November to 01:00 UTC 19 November

Geographic Focus: France

Participation: Worldwide

Mode: CW

Bands: 160 m Only

Classes: Single Op; Multi-Op; SWL

Exchange: RST, serial no and Department Code

QSO Points: 3 points per QSO

Multipliers: Each department code and each DXCC country

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 3 December 2017

E-mail logs to: (none)

Upload log at: <http://concours.r-e-f.org/con-test/logs/upload-form>

Mail logs to: (none)

Find rules at: [http://concours.r-e-f.org/reglements/actuels/reg\\_ref160\\_fr\\_201703.pdf](http://concours.r-e-f.org/reglements/actuels/reg_ref160_fr_201703.pdf)

#### Feld Hell Sprint

19:00 – 20:59 UTC 18 November

Geographic Focus: Worldwide

Participation: Worldwide

Mode: Feld Hell

Bands: 160, 80, 40, 20, 15, 10, 6 m

Classes: (none)

Max power: Standard: 100 watts; QRP: 5 watts

Exchange: (see rules)

Work stations: Once per band

QSO Points: (see rules)

Bonus Points: (see rules)

Multipliers: (see rules)

Score Calculation: (see rules)

Submit logs by: 22 November 2017

Upload log at: <https://sites.google.com/site/feldhellclub/>

Mail logs to: (none)

Find rules at: <https://sites.google.com/site/feldhellclub/Home/contests/sprints/turkey-hunt-sprint>

#### RSGB 2nd 1.8 MHz CW Contest

19:00 - 23:00 UTC 18 November

Geographic Focus: Worldwide

Participation: Worldwide

Mode: CW

Bands: 160 m Only

Classes: Single Op – UK or Overseas – assisted or unassisted

Max power: 400 watts

Exchange: UK: RST, serial no and District Code  
non-UK: RST and serial no

QSO Points: 2 points per QSO; 5 additional points for first QSO with each UK district; 5 additional points for first QSO with each country outside of UK  
Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 23:59 19 UTC November 2017

Upload log at: <http://www.rsgbcc.org/cgi-bin/hfenter.pl>

Mail logs to: (none)

Find rules at:

<http://www.rsgbcc.org/hf/rules/2017/r160m.shtml>

#### ARRL SSB Sweepstakes Contest

21:00 UTC 18 November to 03:00 UTC 20 November

Geographic Focus: United States/Canada

Participation: United States/Canada

Mode: SSB

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op - QRP, low or high; Single Op Unlimited - low or high; Multi-Single - low or high;

School Club – College, Technical or Secondary

Max operating hours: 24 with at least 30 minute off times

Max power: HP: >150 watts; LP: 150 watts; QRP: 5 watts

Exchange: Serial no, precedence (Q/A/B/U/M/S), your call sign, check and ARRL or RAC Section

Work stations: Once only

QSO Points: 2 points per QSO

Multipliers: Each ARRL/RAC section and VE NT once

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 03:00 UTC 25 November 2017

E-mail logs to: (none)

Upload log at: <http://contest-log-submission.arrl.org>

Mail logs to: November SS Phone, ARRL, 225 Main St., Newington, CT 06111, USA

Find rules at: <http://www.arrl.org/sweepstakes>

#### Homebrew and Oldtime Equipment Party

13:00-15:00 UTC 19 November (40 m) and 15:00-17:00 UTC 19 November (80 m)

Geographic Focus: Worldwide

Participation: Worldwide

Mode: CW

Bands: 80, 40 m

Classes: A. Single Op LP, TX and RX: Homebrew or >30 years; B. Single Op LP, TX or RX: Homebrew or >30 years; C. Single Op QRP, Eqpt: Homebrew or >30 years; D. Single Op: Valve Eqpt Marketed before 1965 or Homebrew

Max power: LP: 100 W; QRP: 5 W

Exchange: RST, serial no, "/" and class  
QSO Points: (see rules)  
Multipliers: (none)  
Score Calculation: Total score = total QSO points  
Submit logs by: 21 December 2017  
E-mail logs to: [hot@grpcc.de](mailto:hot@grpcc.de)  
Mail logs to: Lutz Gutheil, DL1RNN, Bergstr. 17, D-38446 Wolfsburg, Germany  
Find rules at: <http://www.grpcc.de/con-testrules/hotr.html>

Run for the Bacon QRP Contest  
02:00 UTC-04:00 UTC 20 November  
Geographic Focus: Worldwide  
Participation: Worldwide  
Mode: CW  
Bands: 160, 80, 40, 20, 15, 10 m  
Classes: Single Band

All Band  
Max power: 5 watts  
Exchange: RST and state, province or country and (Member No./power)  
Work stations: Once per band  
QSO Points: 1 point per QSO with non-member; 3 points per QSO with member on same continent; 5 points per QSO with member on different continent  
Multipliers: Each state, province, or country once; Multiply mults by 2 if >50 members worked  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 26 November 2017  
E-mail logs to: (none)  
Upload log at: <http://qrpcontest.com/pigrun/autolog.php>  
Mail logs to: (none)  
Find rules at: <http://qrpcontest.com/pigrun/>

## Next Week's Contests

SKCC Sprint, 00:00 - 02:00 UTC 22 November  
QRP Fox Hunt, 02:00 - 03:30 UTC 22 November  
Phone Fray, 02:30 - 03:00 UTC 22 November  
CWops Mini-CWT Test, 13:00 - 14:00 UTC and 19:00 - 20:00 UTC 22 November and 03:00 - 04:00 UTC 23 November  
RSGB 80 m Autumn Series, SSB, 20:00 - 21:30 UTC 22 November  
NCCC RTTY Sprint, 01:45 - 02:15 UTC 24 November  
NCCC Sprint, 02:30 - 03:00 UTC 24 November  
CQ Worldwide DX Contest, CW, 00:00 UTC 25 November to 24:00 UTC 26 November

*Items used with acknowledgement to the ARRL Letter, the ARRL DX News, the ARRL Contest Update, OPDX Bulletin, 425 DX Bulletin, DXNL Newsletter, WIA-News, the RSGB News, DxCoffee, Southgate ARC News, DX World and the Amateur Radio Newsletter*